



#6

SEQUENCE LISTING

<110> BEZEMER, Sandra
VAN DER BURG, Monique
DE HAARD, Johannes J
TAREILUS, Erwin

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Arg Gly Gly Leu Thr Gln Tyr Ser Glu His Asp Tyr
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Thr Asp Met Gly Arg Tyr Gly Thr Ser Glu Trp
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Asp Val Arg Pro Tyr Arg Thr Ser Arg Tyr Leu Glu Val
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Asp Val Arg Pro Tyr Arg Thr Ser Arg Tyr Leu Glu Leu
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Asp Val Arg Pro Tyr Arg Thr Ser Arg Tyr Leu Glu Ile
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Gln Val Arg Val Arg Phe Ser Ser Asp Tyr Thr Asn Tyr
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Leu Ile Arg Arg Lys Phe Thr Ser Glu Tyr Asn Glu Tyr
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Leu Ile Thr Arg Trp Asp Lys Ser Val Asn Asp Tyr
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Asp Ile Arg Lys Arg Phe Thr Ser Gly Tyr Ser His Tyr
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asp
20 25 30

Leu Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Glu Arg Glu Ala Val
35 40 45

Ala Arg Ile Thr Arg Gly Gly Thr Thr Ser Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Met Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Arg Arg Ser Asn Tyr Asp Arg Ser Trp Gly Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser Ala His His Ser Glu Asp Pro Ser
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Ser

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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Gly Ser Ile His
20 25 30

Thr Met Gly Trp Tyr Arg Gln Thr Pro Gly Lys Glu Arg Asp Val Val
35 40 45

Ala Thr Ile Gln Asp Gly Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Leu Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Asp Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Asp Val Arg Pro Tyr Arg Thr Ser Arg Tyr Leu Glu Val Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser Glu Pro Lys Thr Pro Lys Pro
115 120 125

Gln Pro
130

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|---|---------------------|---------------------------------|----|
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| Ser Leu Arg | Leu Ser Cys Ala Ala | Ser Gly Thr Ile Leu Ser Ile Ile | |
| 20 | 25 | 30 | |
| Tyr Met Asp Trp Tyr Arg Gln Thr Pro Gly Lys Gln Arg Glu Leu Val | | | |
| 35 | 40 | 45 | |
| Gly Arg Ile Thr Ala Gly Gly Ser Thr Asn Tyr Ala Asp Ser Ala Lys | | | |
| 50 | 55 | 60 | |
| Gly Arg Phe Thr Ile Ser Lys Asp Asn Ala Lys Asn Thr Val Tyr Leu | | | |
| 65 | 70 | 75 | 80 |
| Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn | | | |
| 85 | 90 | 95 | |
| Ala Leu Ile Thr Arg Trp Asp Lys Ser Val Asn Asp Tyr Trp Gly Gln | | | |
| 100 | 105 | 110 | |
| Gly Thr Gln Val Thr Val Ser Ser Glu Pro Lys Thr Pro Lys Pro Gln | | | |
| 115 | 120 | 125 | |
| Pro | | | |

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 <213> lama sp.

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| Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly |
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| Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Gly Ser Ile His |
| 20 25 30 |
| Thr Met Gly Trp Tyr Arg Gln Thr Pro Gly Thr Glu Arg Asp Val Val |
| 35 40 45 |
| Ala Thr Ile Gln Asp Gly Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys |
| 50 55 60 |
| Gly Arg Phe Thr Ile Ser Arg Asp Asn Ile Leu Asn Thr Val Tyr Leu |
| 65 70 75 80 |
| Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr His Cys Asn |
| 85 90 95 |
| Ala Asp Val Arg Pro Tyr Arg Thr Ser Arg Tyr Leu Glu Leu Trp Gly |
| 100 105 110 |
| Gln Gly Thr Leu Val Thr Val Ser Ser Glu Pro Lys Thr Pro Lys Pro |
| 115 120 125 |

Gln Pro
130

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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Ser Ser Ile Asn
20 25 30
Val Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45
Ala Ser Ile Thr Ser Gly Gly Ser Thr Asn Tyr Ala Asp Ser Leu Lys
50 55 60
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ala Val Tyr Leu
65 70 75 80
Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95
Ala His Ile Thr Pro Ala Gly Ser Ser Asn Tyr Val Tyr Gly Tyr Trp
100 105 110
Gly His Gly Thr Lys Val Thr Val Ser Ser Glu Pro Lys Thr Pro Lys
115 120 125
Pro Gln Pro
130

<210> 23
<211> 130
<212> PRT
<213> lama sp.

<400> 23
Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Thr Ile Gly Asp Ile Tyr
20 25 30
Thr Met Ala Trp His Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu Val
35 40 45
Ala Ser Ala Thr Glu Ser Gly Ser Pro Asn Tyr Ala Asp Pro Val Lys

50

55

60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Gly Lys Leu Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Leu Ile Arg Arg Lys Phe Thr Ser Glu Tyr Asn Glu Tyr Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser Glu Pro Lys Thr Pro Lys Pro
115 120 125

Gln Pro
130

<210> 24
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<400> 24
Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Thr Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Pro Ile Gly Asp Val Tyr
20 25 30

Leu Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Met Val
35 40 45

Ala Ser Ile Thr Ala Thr Gly Pro Pro Asn Tyr Thr Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Asp Lys Asn Thr Glu Tyr Leu
65 70 75 80

Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Gln Val Arg Val Arg Phe Ser Ser Asp Tyr Thr Asn Tyr Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser Glu Pro Lys Thr Pro Lys Pro
115 120 125

Gln Pro
130

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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Arg Ser Ile Ser
20 25 30

Ile Met Thr Trp Tyr Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu Val
35 40 45

Ala Arg Met Ser Ser Asp Gly Thr Thr Ser Tyr Thr Asp Ser Met Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

His Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Lys
85 90 95

Ala Leu Ile Ser Ser Tyr Asp Gly Ser Trp Asn Asp Tyr Gly Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser Glu Pro Lys Thr Pro Lys Pro Gln
115 120 125

Pro-

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<212> PRT

<213> lama sp.

<400> 26

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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Gly Asp Ile His
20 25 30

Thr Met Gly Trp Tyr Arg Gln Thr Pro Gly Lys Gln Arg Asp Val Val
35 40 45

Ala Thr Ile Gln Ser Gly Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Leu Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Asp Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Trp Asn
85 90 95

Ala Asp Val Arg Pro Tyr Arg Thr Ser Arg Tyr Leu Glu Ile Trp Gly

100

105

110

Gln Gly Thr Leu Val Thr Val Phe Leu Glu Pro Lys Thr Pro Lys Pro
 115 120 125

Gln Pro
 130

<210> 27
 <211> 130
 <212> PRT
 <213> lama sp.

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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asp Phe Arg Tyr Asn
 20 25 30

Thr Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
 35 40 45

Ala Thr Ile Ala Ser Thr Tyr Arg Thr Ser Tyr Ala Asp Ser Val Lys
 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Gly Thr Val Tyr Leu
 65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95

Ala Ala Arg Ser Leu Val Gln Thr Pro Thr Ser Tyr Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser Ala His His Ser Glu Asp Pro
 115 120 125

Ser Ser
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<210> 28
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Phe Asn
 20 25 30

Ala Met Gly Trp Tyr Arg Gln Val Pro Gly Lys Gln Arg Glu Leu Val
35 40 45

Ala Ala Ile Gly Asn Asp Gly Ala Thr Tyr Tyr Val Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ala Arg Glu Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Ser Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Lys
85 90 95

Gly Arg Gly Gly Leu Thr Gln Tyr Ser Glu His Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser Glu Pro Lys Thr Pro Lys Pro Gln
115 120 125

Pro

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<211> 124

<212> PRT

<213> lama.sp.1

<400> 29

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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Gly Ser Met Tyr
20 25 30

Val Leu Ser Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Pro Val
35 40 45

Ala Ala Leu Met Gly Ser Gly Ser Thr Thr Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ile Lys Asn Thr Met Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Thr Pro Glu Asp Thr Gly Val Tyr Tyr Cys Ala
85 90 95

Gly Thr Gly Ala Glu Gly His Tyr Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser Ala His His Ser Glu Asp Pro Ser Ser
115 120

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<212> PRT
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20 25 30
Val Met Ser Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Pro Val
35 40 45
Ala Ala Leu Met Gly Ser Gly Ser Thr Thr Tyr Ala Asp Ser Val Lys
50 55 60
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ile Lys Asn Thr Met Tyr Leu
65 70 75 80
Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys Ala
85 90 95
Gly Thr Gly Ala Glu Gly His Tyr Trp Gly Gln Gly Thr Gln Val Thr
100 105 110
Val Ser Ser Glu Pro Lys Thr Pro Lys Pro Gln Pro
115 120

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20 25 30
Ala Met Gly Trp Tyr Arg Gln Val Pro Gly Lys Gln Arg Glu Leu Val
35 40 45
Ala Ala Ile Gly Asn Asp Gly Ser Thr Tyr Tyr Val Asn Ser Val Lys
50 55 60
Gly Arg Phe Thr Ile Ser Arg Glu Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80
Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Lys
85 90 95
Gly Arg Gly Gly Leu Thr Gln Tyr Ser Glu His Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser Glu Pro Lys Thr Pro Lys Pro Gln
 115 120 125

Pro

<210> 32
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 <213> lama sp.

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Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Thr Thr Asp Asn Ile Asn
 20 25 30

Ala Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
 35 40 45

Ala Ala Ile Ser Ser Gly Gly Asp Thr Tyr Tyr Thr Glu Phe Val Lys
 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Lys Ala Val Tyr Leu
 65 70 75 80

Gln Met Asn Asn Leu Lys Ser Glu Asp Thr Ala Val Tyr Ser Cys Lys
 85 90 95

Met Thr Asp Met Gly Arg Tyr Gly Thr Ser Glu Trp Trp Gly Gln Gly
 100 105 110

Thr Gln Val Thr Val Ser Ser Glu Pro Lys Thr Pro Lys Pro Gln Pro
 115 120 125

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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Gly Ser Met Tyr
 20 25 30

Val Met Ser Trp Tyr Arg Gln Ala Pro Gly Lys Glu Arg Glu Pro Ile
 35 40 45

Ala Ala Leu Met Gly Ser Gly Ser Thr Thr Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Glu Lys Asn Thr Met Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Thr Pro Glu Asp Thr Gly Val Tyr Tyr Cys Ala
85 90 95

Gly Thr Gly Ala Glu Gly His Tyr Trp Gly Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser Glu Pro Lys Thr Pro Lys Pro Gln Pro
115 120

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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Asp Phe Arg Tyr Asn
20 25 30

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Lys Leu Val
35 40 45

Ala Thr Ile Thr Tyr Thr Tyr Arg Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Gly Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

Ala Ala Arg Ser Leu Glu Leu Thr Pro Thr Ser Tyr Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser Glu Pro Lys Thr Pro Lys Pro
115 120 125

Gln Pro
130